

WHAT IS CLAIMED IS:

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1. A method of applying a voltage, the method comprising:  
storing voltage data in a correction table;  
determining a voltage using, at least in part, voltage data from the correction  
5 table; and  
applying the determined voltage to an organic light emitting diode.
2. The method of Claim 1, additionally comprising generating the voltage  
data for storage in the correction table.
3. The method of Claim 2, wherein generating the voltage data comprises  
10 providing a plurality of reference currents across at least the diode and measuring the  
corresponding output voltage.
4. The method of Claim 2, additionally comprising:  
charging a first capacitor to a first voltage so as to drive a current across an  
organic light emitting diode in a first row of a video display, and  
15 concurrently using a second capacitor to drive a current across an organic light  
emitting diode in a second row of the video display.
5. The method of Claim 2, additionally comprising:  
identifying a voltage level that is needed to provide a selected current;  
identifying the at least one voltage characteristic of a particular light emitting  
20 diode; and  
compensating for a resistance based as least in part upon a resistance of at least  
one of the columns in the video display.
6. The method of Claim 2, additionally comprising:  
identifying a voltage level that is needed to provide a selected current;  
25 identifying at least one voltage characteristic of a particular light emitting diode;  
compensating a voltage based at least in part upon a resistance of at least one of  
the columns in the video display; or  
compensating a voltage based at least in part upon a resistance of at least one of  
the rows in the video display.
- 30 7. A method, comprising:

determining a plurality of output voltages that are to be applied by a plurality of drivers to a plurality of columns of organic light emitting diodes in a video display; and respectively applying the determined voltages to a plurality of columns of the video display.

5           8.     The method of Claim 7, wherein each of the organic light emitting diodes in the video display is part of a passive matrix of light emitting diodes.

9.     A method, comprising:

generating data for storage in a correction table, wherein the correction table includes voltage data that is used to: (i) identify a voltage that is needed to provide a selected current to an organic light emitting diode in the video display, (ii) identify at least one voltage characteristic of a particular light emitting diode, wherein the at least one voltage characteristic identifies a voltage amount that is needed to drive the particular light emitting diode as compared to an average organic light emitting diode, and (iii) compensate for resistance of at least one of the columns in the video display;

15           storing the generated voltage data in a correction table;

determining a voltage using, at least in part, the voltage data from the correction table;

charging a first capacitor to a first voltage so as to drive current across an organic light emitting diode in a first row of the video display; and

20           concurrently with said act of charging using a second capacitor to drive a current across an organic light emitting diode in a second row of the video display.